


Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

First, A Peak At The Dark Side



← Before

This webpage has been compromised by encrypt0 for WOH! I hacked this because I felt like it and was bored and tired. Now, there are some things I have to say to some people.

KababKry: [redacted] You want to smash me on your defacements, go ahead. I can do that to you also. I never had a problem with you and then you start insulting me about a matter that was none of your damn business [redacted]

Daprez: Dude, [redacted] I will *NOT* deface for your dumb group and you. Give it up. Aren't you evasions so 31337??

Shouts go out to the following people: WOH, Antifemur, Sared, SoldierX, attrition, alldas, safemode, M.D.C, and others.

Admin: Please get some unicode patches before somebody damages your system. Only logs were deleted. -)

Happy Mothers' Day Mom!

Copy left and all wrongs reserved. 2001 and so on. ***encrypt0 was here***

[Click here to visit the official WOH! site.](#)


After →

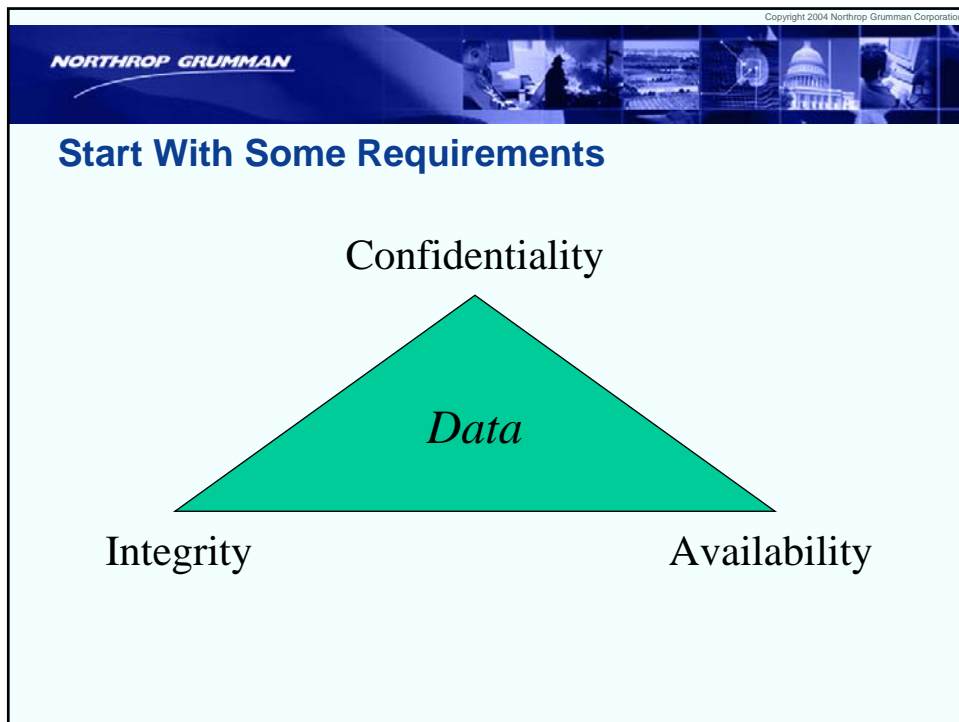
Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

Now, A Less Glamorous Example

- You terminate system administrator Bob.
- You don't disable Bob's account.
- Bob connects from home and formats your server.
- You have no backups.
- You have no data.





Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

Calculate Risk

Threat + Vulnerability + Consequence = Risk

Key objectives of information security include:

- Manage Risk – *Minimize negative impact*
- Ensure Trust – Build and maintain *credibility*
- Avoid Liability – Ensure *compliance* and *due diligence / care*

Controls Reduce Risk!



Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

An Example

- **Threat:** A Tornado
- **Vulnerability:** The information system is located in only one place
- **Risk:** Tornadoes are common in Georgia and a serious one could take out the facility thereby destroying research data
- **Control:** Regular, tested backups are performed and tapes are stored off site

Risk is Reduced!

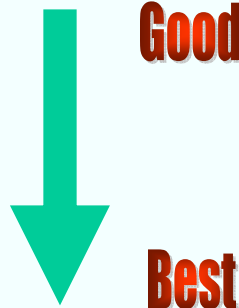
A large green arrow points downwards from the 'Control' item in the list to the text 'Risk is Reduced!', visually connecting the control measure to the reduction in risk.

The goal of information security is to *cost-effectively* lower risk to an **acceptable** level while working to support organizational objectives

What Is A Security IV&V?

Independent Validation & Verification

- Control Review /
Technical Vulnerability Scan
- +
- Formal Risk Assessment
- +
- Penetration Testing

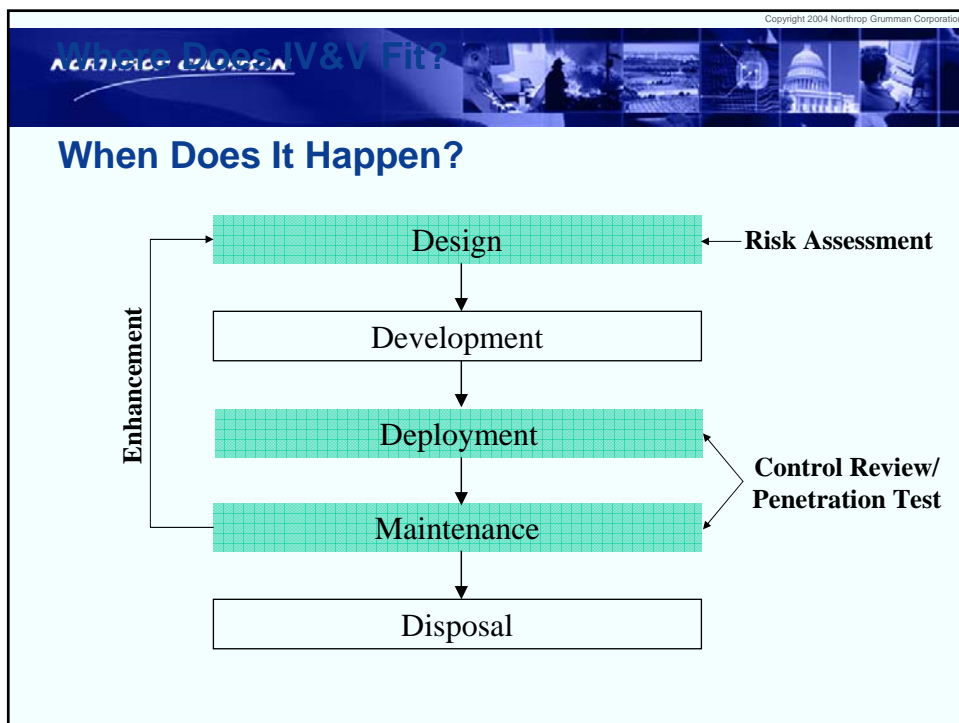


Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

What Does It Do?

- Identifies Risks
- Inventories Existing Controls
- Verifies Control Effectiveness
- Establishes Priorities
- Identifies Additional Controls
- Monitors for Change



Before The IV&V

- Approach / Methodology
- Background Checks
- References



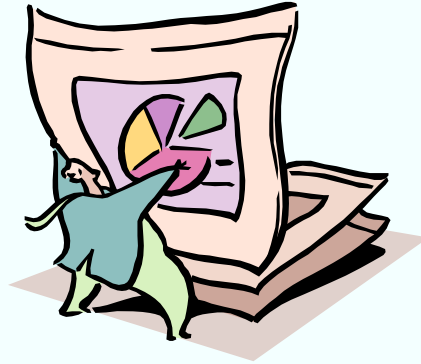
During The IV&V

- Action Plan
- Start and End Times
- Good Communication
- Break Points



After The IV&V

- Report of Findings
- Recommendations
- Supporting Materials
- Material Disposal



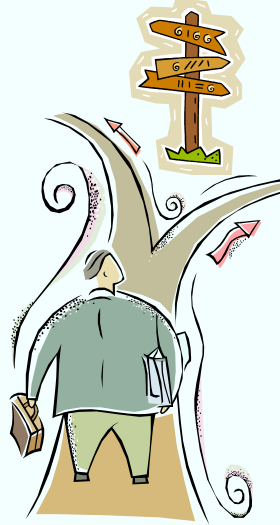
Potential Snags

- Identify Systems to be Avoided
- Timing of Scans / Attacks
- Secure Communication During and After Assessment
- Document / Data Destruction Process



Now What?

- Interpret The Results
- Acknowledge Your Risks
- Develop A Remediation Plan
- Track Your Progress
- Do It Again!



IV&V & PHIN

Security is key to PHIN:

“External verification of security and continuity processes and technology for public health agencies that support critical information systems should occur on at least a yearly basis.”

Source: PHIN Standards, Functions & Specifications

Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

Resources

- **NIST Computer Security Resource Center**
<http://csrc.nist.gov/publications/index.html>
- **NSA INFOSEC Assessment Methodology**
<http://www.nsa.gov>

Copyright 2004 Northrop Grumman Corporation

NORTHROP GRUMMAN

Key Points / Last Thoughts

- **Security is a Process**
- **IV&V Can be an Effective Tool**
- **Results Are Only as Good as the Assessor**
- **Embrace the Process**
- **Know Your Risks – Even if Everything Can't be Addressed**
- **Track Progress and Measure Improvement Over Time**



Questions?